## IN THE CLAIMS

In accordance with the revised format for claim amendments, all claims are shown below. Please amend the claims as follows:

- 1. (Currently Amended) A nucleic acid molecule having a nucleic acid sequence that encodes a linker region of exoglucanase, said nucleic acid sequence comprising the nucleotide sequence: of SEQ ID NO: 3-5' GGCGGAAACCCGCCTGGCACCACC-3'.
- 2. (Original) The nucleic acid molecule of claim 1 wherein said exoglucanse is further defined as a cellobiohydrolase.
- 3. (Original) The nucleic acid molecule of claim 1 wherein said exoglucanase is further defined as a  $1,4-\beta$ -cellobiohydrolase.
- 4. (Currently Amended) The nucleic acid molecule of claim 1 whereas said nucleic acid sequence is further defined as comprising <u>SEQ ID NO: 19.</u>
- 6. (Original) A nucleic acid molecule having a nucleic acid sequence encoding a variant cellobiohydrolase, said nucleic acid sequence comprising a linker region sequence having a length of from about 20 nucleotides to about 50 nucleotides linker region, between a catalytic domain and a cellulose binding domain (CBD).
- 7. (Original) The nucleic acid molecule of claim 5 wherein the variant cellobiohydrolase is further defined as having enhanced thermostability.
- 8. (Original) The nucleic acid molecule of claim 5 wherein the variant cellobiohydrolase is further defined as an 1,4  $\beta$ -cellobiohydrolase.
- 9. (Original) The nucleic acid molecule of claim 5 wherein the cellobiohydrolase is further defined as having reduced end-product inhibition.
- 10. (Original) The nucleic acid molecular of claim 5 wherein the linker region sequence has a length of about 24 nucleotides.
- 11. (Original) A method for making an active exoglucanase in a eukaryotic heterologous host, the method comprising reducing glycosylation of the exoglucanase, wherein reducing comprises replacing an N-glycosylation site amino acid residue with non-glycosyl accepting amino acid residue.

- 12. (Original) The method of claim 10, wherein the N-glycosylation site amino acid residues include asparagines 45, 270, or 384 of Table 4 and the non-glycosyl accepting amino acid residue includes alanine.
- 13. (Original) The method of claims 10, wherein replacing comprises sitedirected mutagenisis.
- 14. (Original) The methods of claims 10, wherein the exoglucanase comprises a cellobiohydrolase.
- 16. (Currently Amended) An exoglucanase, comprising of the sequence change of Table 4, N270A, 5' CCCATACCGCCTGGGCGCCCACCAGCTTCTACGGCCC 3' SEQ ID NO: 21.
- 17. (Currently Amended) An exoglucanase, comprising of the sequence change of Table 4, N384A, 5'GGACTCCACCTACCCGACAGCCGAGACCTCCTCCACACCCG-3' SEQ ID NO: 22.
- 18. (Currently Amended) An exoglucanase, comprising a combination of claims 14,15,16,17.

## IN THE FIGURES

Figure 1. Coding sequence for the *cbh1* gene (SEQ ID NO: 4). Small case letters represent the signal sequence, large case letters the catalytic domain, bolded italics the linker region, and large case underlined the cellulose-binding domain.

at gtateggaagt t ggccgt catctegg cettet t ggcca cag ctegt get CAGTCGGCCTGCACTCTCCAATCGGAACTCACGTCATCGACGCCAACTGGCGCTGGACTCACGCTACGAACAGCACCACGAACTGCTACGATGG CAACACTTGGAGCTCGACCCTATGTCCTGACAACGAGACCTGCGCGAAGAACTGCTGTCTGGA CGGTGCCGCCTACGCGTCCACGTACGGAGTTACCACGAGCGGTAACAGCCTCTCCATTGGCTT CTACCAGGAATTCACCCTGCTTGGCAACGAGTTCTCTTTCGATGTTGATGTTTCGCAGCTGCCG TGCGGCTTGAACGGAGCTCTCTACTTCGTGTCCATGGACGCGGATGGTGGCGTGAGCAAGTAT CCCACCAACACCGCTGGCGCCAAGTACGGCACGGGGTACTGTGACAGCCAGTGTCCCCGCGA TCTGAAGTTCATCAATGGCCAGGCCAACGTTGAGGGCTGGGAGCCGTCATCCAACAACGCGA ACACGGGCATTGGAGGACACGGAAGCTGCTGCTCTGAGATGGATATCTGGGAGGCCAACTCC ATCTCCGAGGCTCTTACCCCCCACCCTTGCACGACTGTCGGCCAGGAGATCTGCGAGGGTGAT GGGTGCGGCGGAACTTACTCCGATAACAGATATGGCGGCACTTGCGATCCCGATGGCTGCGA CTGGAACCCATACCGCCTGGGCAACACCAGCTTCTACGGCCCTGGCTCAAGCTTTACCCTCGA TACCACCAGAAATTGACCGTTGTCACCCAGTTCGAGACGTCGGGTGCCATCAACCGATACTA TGTCCAGAATGGCGTCACTTTCCAGCAGCCCAACGCCGAGCTTGGTAGTTACTCTGGCAACGA GCTCAACGATGATTACTGCACAGCTGAGGAGGCAGAATTCGGCGGATCCTCTTTCTCAGACAA GGGCGGCCTGACTCAGGTACAGAAGGCTACCTCTGGCGGCATGGTTCTGGTCATGAGTCTGTG GGATGATTACTACGCCAACATGCTGTGGCTGGACTCCACCTACCCGACAAACGAGACCTCCTC  ${\tt CACACCGGTGCCGCGGAAGCTGCTCCACCAGCTCCGGTGTCCCTGCTCAGGTCGAATC}$ TCAGTCTCCCAACGCCAAGGTCACCTTCTCCAACATCAAGTTCGGACCCATTGGCAGCACCGG AGCCACTACCACTGGAAGCTCTCCCGGACCTGGCTACAGCGGCCCACGGTCTGCGCCAGCGGCACAACTTGCCAGGTCCTGAACCCTTACTAC TCTCAGTGCCTGTAAAGCTCC

Figure 4. Coding sequence, SEQ ID NO: 19, for the linker region of the *cbh1* gene, SEQ ID NO: 4, showing additional proline <u>nucleotides</u> that effect conformation of the linker region in the protein structure.

